Bornstein, M. B., and H. Iwanami, experimental allergic encephalomyelitis: in vitro demyelination produced by sensitized rat lymph node cells and serum, T146
—, see Raine, C. S., *177
—, see Raine, C. S., *552
Bowen, F. P., and A. Roth, immunofluorescence in primary and secondary epileptogenic foci in rabbit cortex, T126
Bradley, W. G., and A. K. Asbury, radioautographic studies of Schwann cell behavior: I. acrylamide neuropathy in the mouse, *500
Brain extracts, demonstration in tissue culture of myelinotoxicity in multiple sclerosis patients, *420
Brightman, M. W., T. S. Reese, Y. Olsson, and I. Klatzo, morphological restrictions to the passage of exogenous protein within shark brains, T123
Brosnan, C. F., M. B. Bunge, and M. R. Murray, the response of lysosomes in cultured neurons to chlorpromazine, *337
Buck, E. L., see Krigman, M. R., T151
Budzilovich, G. N., see Kay, W. J., T156
Bunge, M. B., see Brosnan, C. F., *337
Byck, R., see Schaumburg, H. H., *615

Cancilla, P. A., and R. M. Barlow, lysis of myelin in border disease of lambs, T129
Carlson, C. B., see Shaw, C.-M., *306
Carpenter, S., the ultrastructure of demyelination in a case of acute Guillain-Barré syndrome, T148
Carregal, E. J. A., see Cravioto, H., T158
Cellular changes in the human supraoptic and paraventricular hypothalamic nuclei in dehydration, *254
Cerebellar hypoplasia and agenesis in the dog, T156
Cerebral edema, focal, Na-K-ATP'ase activity in, *285
— g_{m1}-gangliosidosis: a single disease or a group of diseases?, T137
Cerebrospinal fluid, demonstration in tissue culture of myelinotoxicity in multiple sclerosis patients, *420
— sediment, a method for the electron microscopic study, *320
Cerebrotendinous xanthomatosis: a clinicopathological biochemical and metabolic study, T139
Chang, C. H., see Mastri, A. R., T154
Changes in nuclear chromatin produced by actinomycin D and related agents in neurons and glia. A cytochemical and electron microscopic study, T160
Chiang, T. Y., see Barron, K. D., T153
Chlorpromazine, the response of lysosomes in cultured neurons, to, *337
Chou, S. M., J. D. Martin, J. A. Gutrecht, and H. G. Thompson, Jr., axonal balloons in subacute motor neuron disease, T141
Clasen, R. A., S. Pandolfi, and G. M. Hass, vital staining, serum albumin and the blood-brain barrier, *266
Closed-head focal injury, healing in the cerebral cortex of the infant rat, *21
Cole, G. A., see Nathanson, N., T130
Cole, M., and W. J. H. Nauta, retrograde atrophy of axons of the medial lemniscus of the cat. An experimental study, *354
—, see Meyer, D., T152
Collins, R. C., J. B. Kirkpatrick, and D. B. McDougal, Jr., some regional pathologic and metabolic consequences in mouse brain of pyrithiamine-induced thiamine deficiency, *57
Comparison of certain retrograde oxidative reactions after section of axons in central and peripheral nervous systems, T152
Computer analysis of neurons, T145
Cook, S. D., see Kim, S. U., T147
—, see Wisniewski, H., T148
Correlation between functional and morphological changes in temporary cerebral ischemia, T125
Cowen, D., L. M. Geller, and A. Wolf, healing in the cerebral cortex of the infant rat after closed-head focal injury, *21
Crain, S. M., see Peterson, E. R., T134
Cravioto, H., W. F. Agnew, E. J. A. Carregal, and R. H. Pudenz, the distribution of tellurium in the nervous system of the rat—an ultrastructural study, T158
Cri du chat syndrome: clinical, cytogenetic, and neuropathologic observations, T159
Crystalline structures in globoid-epitheloid cells: an electron microscopic study of globoid leukodystrophy (Krabbe's Disease), *306

Daniels, A. C., see Barron, K. D., T153
Deficiency of ATPase-positive astrocytic processes in spongy degeneration of the nervous system (Canavan's disease), T136
del Cerro, M. P., and R. S. Snider, experimental colchicine encephalopathy in immature brains, T142
Dembitzer, H. M., see Hirano, A., T124
—, see Hirano, A., *432
Demonstration in tissue culture of myelinotoxicity in cerebrospinal fluid and brain extracts from multiple sclerosis patients, *420
Derby, B. M., S. Pogacar, C. Mueckenhausen, H. W. Moser, and E. P. Richardson, Jr., cerebrotendinous xanthomatosis: a clinicopathological biochemical and metabolic study, T139
Distribution of tellurium in the nervous system of the rat—an ultrastructural study, T158
Doolin, P. F., see Barron, K. D., T153
Dowling, P. C., see Kim, S. U., T147

Bornstein, M. B., and H. Iwanami, experimental allergic encephalomyelitis: in vitro demyelination produced by sensitized rat lymph node cells and serum, T146
—, see Raine, C. S., *177
—, see Raine, C. S., *552
Bowen, F. P., and A. Roth, immunofluorescence in primary and secondary epileptogenic foci in rabbit cortex, T126
Bradley, W. G., and A. K. Asbury, radioautographic studies of Schwann cell behavior: I. acrylamide neuropathy in the mouse, *500
Brain extracts, demonstration in tissue culture of myelinotoxicity in multiple sclerosis patients, *420
Brightman, M. W., T. S. Reese, Y. Olsson, and I. Klatzo, morphological restrictions to the passage of exogenous protein within shark brains, T123
Brosnan, C. F., M. B. Bunge, and M. R. Murray, the response of lysosomes in cultured neurons to chlorpromazine, *337
Buck, E. L., see Krigman, M. R., T151
Budzilovich, G. N., see Kay, W. J., T156
Bunge, M. B., see Brosnan, C. F., *337
Byck, R., see Schaumburg, H. H., *615

Cancilla, P. A., and R. M. Barlow, lysis of myelin in border disease of lambs, T129
Carlson, C. B., see Shaw, C.-M., *306
Carpenter, S., the ultrastructure of demyelination in a case of acute Guillain-Barré syndrome, T148
Carregal, E. J. A., see Cravioto, H., T158
Cellular changes in the human supraoptic and paraventricular hypothalamic nuclei in dehydration, *254
Cerebellar hypoplasia and agenesis in the dog, T156
Cerebral edema, focal, Na-K-ATP'ase activity in, *285
— g_{m1}-gangliosidosis: a single disease or a group of diseases?, T137
Cerebrospinal fluid, demonstration in tissue culture of myelinotoxicity in multiple sclerosis patients, *420
— sediment, a method for the electron microscopic study, *320
Cerebrotendinous xanthomatosis: a clinicopathological biochemical and metabolic study, T139
Chang, C. H., see Mastri, A. R., T154
Changes in nuclear chromatin produced by actinomycin D and related agents in neurons and glia. A cytochemical and electron microscopic study, T160
Chiang, T. Y., see Barron, K. D., T153
Chlorpromazine, the response of lysosomes in cultured neurons, to, *337
Chou, S. M., J. D. Martin, J. A. Gutrecht, and H. G. Thompson, Jr., axonal balloons in subacute motor neuron disease, T141
Clasen, R. A., S. Pandolfi, and G. M. Hass, vital staining, serum albumin and the blood-brain barrier, *266
Closed-head focal injury, healing in the cerebral cortex of the infant rat, *21
Cole, G. A., see Nathanson, N., T130
Cole, M., and W. J. H. Nauta, retrograde atrophy of axons of the medial lemniscus of the cat. An experimental study, *354
—, see Meyer, D., T152
Collins, R. C., J. B. Kirkpatrick, and D. B. McDougal, Jr., some regional pathologic and metabolic consequences in mouse brain of pyrithiamine-induced thiamine deficiency, *57
Comparison of certain retrograde oxidative reactions after section of axons in central and peripheral nervous systems, T152
Computer analysis of neurons, T145
Cook, S. D., see Kim, S. U., T147
—, see Wisniewski, H., T148
Correlation between functional and morphological changes in temporary cerebral ischemia, T125
Cowen, D., L. M. Geller, and A. Wolf, healing in the cerebral cortex of the infant rat after closed-head focal injury, *21
Crain, S. M., see Peterson, E. R., T134
Cravioto, H., W. F. Agnew, E. J. A. Carregal, and R. H. Pudenz, the distribution of tellurium in the nervous system of the rat—an ultrastructural study, T158
Cri du chat syndrome: clinical, cytogenetic, and neuropathologic observations, T159
Crystalline structures in globoid-epitheloid cells: an electron microscopic study of globoid leukodystrophy (Krabbe's Disease), *306

Daniels, A. C., see Barron, K. D., T153
Deficiency of ATPase-positive astrocytic processes in spongy degeneration of the nervous system (Canavan's disease), T136
del Cerro, M. P., and R. S. Snider, experimental colchicine encephalopathy in immature brains, T142
Dembitzer, H. M., see Hirano, A., T124
—, see Hirano, A., *432
Demonstration in tissue culture of myelinotoxicity in cerebrospinal fluid and brain extracts from multiple sclerosis patients, *420
Derby, B. M., S. Pogacar, C. Mueckenhausen, H. W. Moser, and E. P. Richardson, Jr., cerebrotendinous xanthomatosis: a clinicopathological biochemical and metabolic study, T139
Distribution of tellurium in the nervous system of the rat—an ultrastructural study, T158
Doolin, P. F., see Barron, K. D., T153
Dowling, P. C., see Kim, S. U., T147

—, see Wisniewski, H., T148
Dudley, A. W. Jr., computer analysis of neurons, T145
—, localization of radioisotopes within neurons in experimental cerebral infarction, T151
Duffy, P. E., virus induced cerebral sarcoma, *370
Dyck, P. J., and E. H. Lambert, polyneuropathy associated with hypothyroidism, *631
Dysmyelination in the brain of the quaking mouse: an electron microscopic study, T150

Earle, K. M., see Lampert, P. W., T129
Effect of early undernutrition on neuronal maturation, T144
— of irradiation and oxygen on cat brain, T154
Einaugler, R. B., see Olson, W. H., T150
Electron microscopic study of cerebrospinal fluid sediment, T128
— microscopic study of CSF sediment, *320
— microscopy of retinoblastoma: an in vivo and in vitro study, T160
Ellsworth, R. M., see Popoff, N., T160
Embree, L. J., and H. H. Hess, microchemistry of ATPases in normal and Alzheimer's disease cortex, T136
Embryonic neuroschisis and maldevelopment: new evidence of anencephaly, spina bifida and diverse mammalian defects, *192
Encephalitis, experimental herpes simplex: early neuropathologic changes, *89
Encephalomyelitis ar ultrastructural study of experimental demyelination in vitro, *177
Engel, A. G., see MacDonald, R. D., T134, *479
Engel, W. K., see Olson, W H., T150
—, see Pleasure, D., T140
Erythrocyte velocities and a velocity-pulse revealed by high speed microcinematography of minute pial vessels in the mouse, T124
Esterases of human brain, peripheral nerve, primary craniospinal neoplasms and extracranial tissues, T135
Experimental allergic encephalomyelitis, fine structural alterations of blood brain barrier in, *432
— — —, an ultrastructural study of experimental demyelination in vitro, *177
— — —, in vitro demyelination produced by sensitized rat lymph node cells and serum, T146
— — —, in vitro studies of immunological mechanisms in, T146
— — —, studies on lymphocyte transformation in, *575
Experimental chloroquine myopathy, T134 *479
— colchicine encephalopathy in immature brains, T142
— herpes simplex encephalitis: early neuropathologic changes, *89
— kuru encephalopathy in chimpanzees and spider monkeys. electron microscopic studies, T129
— measles encephalitis: a light, phase, and electron microscopic study, T131
— studies on the mechanism of olivary heterotopia formation, T133
External granular layer, fetal, neonatal cerebellar medulloblastoma originating from, *583

Familial dysautonomia, T157
Feigin, I., and H. H. Goebel, "infantile" subacute necrotizing encephalopathy in the adult, T122
—, see Naoumenko, J., *119
Fine structural alterations of the blood-brain barrier in experimental allergic encephalomyelitis, *432
— — localization of a blood-nerve barrier in the mouse, T123
— structure and histochemical studies of choristomas of the neurohypophysis. Comparison with "granular cell myoblastoma," T155
— — of neuromuscular junctions following spontaneous reinnervation and implantation of denervated muscle, T134
— — of Rous transformed human malignant astrocytes, T132
Focal cerebral edema with experimental glioma, *285
Freeman, J. M., see Herndon, R. M., *524
Freeman, W., and L. W. McDonald, thorium in the brain—five cases at autopsy 10 to 32 years later, T160
Friede, R. L., see Martinez, A. J., T139
—, see Samorajski, T., *507

Gajdusek, D. C., see Lampert, P. W., T129
Gambetti, L. A., A. M. Kelly, and S. A. Steinberg, biochemical studies in a canine gangliosidosis, T137
Gambetti, P., the multilamellar cytosome in late infantile amaurotic idiocy, T138
Garro, F., see Pentschew, A., T159
Geller, L. M., see Cowen, D., *21
Gibbs, C. J., see Lampert, P. W., T129
Gillespie, D., see MacIntyre, E. H., T132
Glial fibers, Holzer technic for staining, *119
Globoid-epithelioid cells, crystalline structures in, *306
Goebel, H. H., see Feigin, I., T122
Golgi network and lysosomes in aging cerebral neurons, *225
Gonatas, N. K., ultrastructural observation in a case of multiple sclerosis, T149
Griffith, J. F., see Baringer, J. R., *89
—, see —, T131
Grover, W. D., see Suzuki, K., *392
Gruemer, H. D., see Liss, L., T159
Gutrecht, J. A., see Chou, S. M., T141

XUM

Haltia, M., and P. Sourander, the effect of early undernutrition on neuronal maturation, †144
Hanaway, J., and M. Netsky, experimental studies on the mechanism of olivary heterotopia formation, †133
Hartmann, H. A., and J. Lin, nuclear and cytoplasmic RNA in experimental neuroaxonal dystrophy, †135
Hass, G. M., see Clasen, R. A., *266
Healing in the cerebral cortex of the infant rat after closed-head focal injury, *21
Hereditary sensory neuropathy: light, phase-contrast and electron microscopic observations, †122
Herndon, R. M., the electron microscopic study of cerebrospinal fluid sediment, †128
—, and M. J. Johnson, a method for the electron microscopic study of cerebrospinal fluid sediment, *320
—, L. J. Rubinstein, J. M. Freeman, and G. Mathieson, light and electron microscopic observations on Rosenthal fibers in Alexander's disease and in multiple sclerosis, *524
Herpes simplex encephalitis, experimental, early neuropathologic changes, *89
Hess, A. R., see Barron, K. D., †135
Hess, H. H., see Embree, L. J., †136
Hilding, D. A., see Schulz, R. A., *105
Hirano, A., H. M. Dembitzer, N. H. Becker, S. Levine, and H. M. Zimmerman, fine structural alterations of the blood-brain barrier in experimental allergic encephalomyelitis, *432
—, H. M. Dembitzer, and H. M. Zimmerman, observations and reflections on the periaxonal space of the central myelinated axon, †124
—, see Wisniewski, H., *163
Histochemical and structural changes in peripheral nerve following local injections of vincristine sulfate, †140
—, ultrastructural and biochemical studies of a case with leukodystrophy due to congenital deficiency of myelin, †149
Hogan, E. L., J. P. Hurt, and M. R. Krigman, subacute necrotic myelopathy: isolation of a virus, light and electron microscopic studies, †131
Holzer technic, for staining glial fibers in paraffin sections, *119
Horta-Barbosa, L., J. L. Sever, I. Watanabe, and W. Zeman, isolation of measles virus from the brain tissue of patients with subacute sclerosing panencephalitis, †132
Hossmann, K., and Y. Olsson, correlation between functional and morphological changes in temporary cerebral ischemia, †125
Hurt, J. P., see Hogan, E. L., †131
—, see Krigman, M. R., *285
Hypothalamic nuclei in dehydration, *254
Hypothyroidism, polyneuropathy associated with, *631

Immunofluorescence in primary and secondary epileptogenic foci in rabbit cortex, †126
"Infantile" subacute necrotizing encephalopathy in the adult, †122
Inhibition of experimental cerebral vasospasm by agents with beta adrenergic blocking properties, †155
In memoriam, Arthur Weil, *1
— —, Hugo Spatz, *331
In vitro studies of immunological mechanisms in experimental allergic encephalomyelitis, †146
Ishihara, Y., see Yonezawa, T., †153
Ishii, N., see Weller, R. O., †126
Isolation of measles virus from the brain tissue of patients with subacute sclerosing panencephalitis, †132
Iwanami, H., see Bornstein, M. B., †146

Jacobson, S., see Koenig, H., †160
Johnson, A. B., deficiency of ATPase-positive astrocytic processes in spongy degeneration of the nervous system (Canavan's disease), †136
—, see Terry, R. D., †142
—, and N. R. Blum, nucleoside phosphatase activities associated with the tangles and plaques of Alzheimer's disease: a histochemical study of natural and experimental neurofibrillary tangles, *463
Johnson, L., see Schutta, H. S., †144, *296

Kadin, M. E., L. J. Rubinstein, and J. S. Nelson, neonatal cerebellar medulloblastoma originating from the fetal external granular layer, *583
Kay, W. J., and G. N. Budzilovich, cerebellar hypoplasia and agenesis in the dog, †156
Kelly, A. M., see Gambetti, L. A., †137
Kepes, J. J., and M. Kepes, predominantly cerebral forms of histiocytosis-X, †157
Kilham, L., see Margolis, G., †130
Kim, S. U., M. R. Murray, P. C. Dowling, and S. D. Cook, analysis of myelinotoxic factors in human disease, †147
—, M. R. Murray, W. W. Tourtellotte, and J. A. Parker, demonstration in tissue culture of myelinotoxicity in cerebrospinal fluid and brain extracts from multiple sclerosis patients, *420
Kirkpatrick, J. B., see Collins, R. C., *57
Klasnja, R., see Johnson, K. P., †133
Koehl, H., see Solitare, G. B., †159
Koenig, H., R. Nayyar, S. Jacobson, and C. Y. Lu, changes in nuclear chromatin produced by actinomycin D and related agents in neurons and glia. A cytochemical and electron microscopic study, †160
Koep, L. J., B. W. Konigsmark, and E. E. Sperber, cellular changes in the human supraoptic and paraventricular hypothalamic nuclei in dehydration, *254

Konigsmark, B. W., neuropathology of the ventral cochlear nucleus in man as seen in neuronal population estimates, T145
—, see Koep, L. J., *254
Koestner, A., see Swenberg, J. A., T128
Kornfeld, M., see Appenzeller, O., T154
Krigman, M. R., and E. L. Buck, ouabain encephalopathy: a temporal study of histological, electrolyte, and Na-K stimulated adenosine, triphosphatase changes, T151
—, see Hogan, E. L., T131
—, and J. P. Hurt, Na-K-ATP'ase activity in focal cerebral edema associated with an experimental glioma in guinea pigs. *285
Kuntz, H., see Warnatz, H., *575
Kwak, S., see Barron, K. D., T152

Lambert, E. H., see Dyck, P. J., *631
Lampert, P. W., K. M. Earle, C. J. Gibbs, and D. C. Gajdusek, experimental kuru encephalopathy in chimpanzees and spider monkeys. electron microscopic studies, T129
Landry-Guillain-Barré syndrome: a primary demyelinating disease, T148
Lapham, L. W., see Lentz, R. D., *43
Laster, L., see Volpe, J. J., T156
Lehrich, J. R., and B. G. Arnason, suppression of experimental allergic neuritis in rats by prior immunization with nerve in saline, T147
Lentz, R. D., and L. W. Lapham, postnatal development of tetraploid DNA content in rat Purkinje cells: a quantitative cytochemical study, *43
Leukodystrophy, globoid, crystalline structures in globoid-epithelioid cells, *306
—, globoid, ultrastructure with reference to the origin of globoid cells, *441
—, histochemical, ultrastructural and biochemical studies of a case due to congenital deficiency of myelin, *601
Levine, S., presidential address: allergic encephalomyelitis: cellular transformation and vascular blockade, T146, *6
—, see Hirano, A., *432
Lin, J., see Hartmann, H. A., T135
Lindenberg, R., in memorium, Hugo Spatz, *331
Liss, L., and H. D. Gruemer, an in vitro model to study phenylalanine and related compounds, T159
Liu, H. M., ultrastructure of globoid leukodystrophy (Krabbe's Disease) with reference to the origin of globoid cells, *441
Localization of radioisotopes within neurons in experimental cerebral infarction, T151
Lu, C. Y., see Koenig, H., T160
Lymphocyte transformation, in experimental allergic encephalomyelitis, *575
Lysis of myelin in border disease of lambs, T129
Lysosomes, in cultured neurons: response to chlorpromazine, *337

Macdonald, R. D., and A. G. Engel, experimental chloroquine myopathy, T134, *479
McDonald, L. W., see Freeman, W., T160
McDougal, D. B., Jr., see Collins, R. C., *57
Macintyre, E. H., D. Gillespie, and A. E. Vatter, the fine structure of Rous transformed human malignant astrocytes, T132
Margolis, G., and L. Kilham, reovirus encephalitis: new observations of virus-cell interactions in neural tissues, T130
Martin, J. D., see Chou, S. M., T141
Martinez, A. J., and R. L. Friede, a quantitative analysis of reactive axon swellings, T139
Mastri, A. R., C. H. Chang, and J. J. Senyszyn, effect of irradiation and oxygen on cat brain, T154
Mathieson, G., see Herndon, R. M., *524
Medial lemniscus, retrograde atrophy of axons of the cat, *354
Medulloblastoma, neonatal cerebellar, originating from the fetal external granular layer, *583
Metabolic consequences and some regional pathologic consequences in mouse brain of pyrithiamine-induced thiamine deficiency, *57
Meyer, D., and M. Cole, comparison of certain retrograde oxidative reactions after section of axons in central and peripheral nervous systems, T152
Microchemistry of ATP'ases in normal and Alzheimer's disease cortex, T136
Microglia in the monkey and rabbit retina, *217
Mitochondrial abnormalities in bilirubin encephalopathy, T144, *296
Morphologic changes of peripheral muscle in progressive disabilities of ocular motility, T150
Morphological restrictions to the passage of exogenous protein within shark brains, T123
Moser, H. W., see Derby, B. M., T139
Mueckenhausen, C., see Derby, B. M., T139
Multilamellar cytosome in late infantile amaurotic idiocy, T138
Multiple sclerosis, demonstration in tissue culture of myelinotoxicity in cerebrospinal fluid and brain extracts from patients, *420
— —, light and electron microscopic observations of, *524
Murray, M. R., see Brosnan, C. F., *337
—, see Kim, S. U., T147, *420
Myelin, leukodystrophy due to congenital deficiency of, histochemical ultrastructural and biochemical studies of, *601
Myelinotoxicity, demonstration in tissue culture in cerebrospinal fluid and brain

XUM

extracts from multiple sclerosis patients, *420
Myopathy, experimental chloroquine, *479
Myotonic dystrophy, an electron microscopic investigation of, *241

Na-K-ATP'ase activity in focal cerebral edema associated with an experimental glioma in guinea pigs, *285
Naoumenko, J., and I. Feigin, a modified Holzer technic for staining glial fibers in paraffin sections, *119
Nathanson, N., and G. A. Cole, viral hemorrhagic encephalopathy of rats, T130
Nauta, W. J. H., see Cole, M., *354
Nayyar, R., see Koenig, H., T160
Nelson, J. S., see Kadin, M. E., *583
Neoplasia of glia in culture by polyoma virus, *70
Neoplastic transformation of hamster astrocytes and choroid plexus cells in culture by polyoma virus, *70
Nerve fiber growth and myelination in von Recklinghausen eighth nerve tumor tissue, *105
Netsky, M., see Hanaway, J., T133
Neural tube abnormalities produced in chick embryos with influenza A virus, T133
Neurofibrillary tangles, a histochemical study of, *463
Neuropathology of the ventral cochlear nucleus in man as seen in neuronal population estimates, T145
Neuroschisis and human embryonic maldevelopment: new evidence on anencephaly, spina bifida and diverse mammalian defects, *192
Neville, H. E., see Schutta, H. S., T144, *296
Norton, W. T., see Shelanski, M. L., T141
Nuclear and cytoplasmic RNA in experimental neuroaxonal dystrophy, T135
Nucleoside phosphatase activities associated with the tangles and plaques of Alzheimer's disease: a histochemical study of natural and experimental neurofibrillary tangles, *463

Observations and reflections on the perixaxonal space of the central myelinated axon, T124
Okada, K., see Sung, J. H., T143
Olson, W. H., W. K. Engel, and R. B. Einaugler, morphologic changes of peripheral muscle in progressive disabilities of ocular motility, T150
Olsson, Y., see Brightman, M. W., T123
—, and K. A. Hossmann, vulnerability of the blood brain barrier (BBB) to proteins after cerebral ischemia, T125
—, see Reese, T. S., T123
Ouabain encephalopathy: a temporal study of histological, electrolyte, and Na-K stimulated adenosine triphosphatase changes, T151

Padgett, D. H., neuroschisis and human embryonic maldevelopment: new evidence on anencephaly, spina bifida and diverse mammalian defects, *192
Pandolfi, S., see Clasen, R. A., *266
Paraventricular nuclei, human, cellular changes in dehydration, *254
Parker, J. A., see Kim, S. U., *420
Pathogenesis of mycotic encephalitis: an ultrastructural study, T128
— of tissue damage in hydrocephalus, T126
Pathologic changes of astrocytic organelles in various lipidoses, T138
Pathology of sural nerves in pediatric neurological disease, T154
Patterns of remyelination in chronic experimental allergic encephalomyelitis, T148
Pearson, J., G. Budzilovich, and M. Finegold, familial dysautonomia, T157
Pentschew, A., and F. Garro, chronic cyanide rhombencephalo-myelopathy in monkeys. a study model for progressive muscular atrophy, T159
Peripheral nerve, effect of phenol on, *615
Phenol, effect on peripheral nerve of, *615
Peterson, E. R., L. Alfei, and S. M. Crain, regeneration and innervation, de novo, of adult skeletal muscle in vitro, T134
Pleasure, D., and W. K. Engel, axonal protein flow in experimental neuropathies, T140
Pogacar, S., see Derby, B. M., T139
Polyoma virus, neoplastic transformation of hamster astrocytes and choroid plexus cells in culture, *70
Popoff, N., and R. M. Ellsworth, electron microscopy of retinoblastoma: an in vivo and in vitro study, T160
Popovitch, E. R., C. H. Sutton, N. H. Becker, and H. M. Zimmerman, fine structure and histochemical studies of choristomas of the neurohypophysis. comparison with "granular cell myoblastoma", T155
Postnatal development of tetraploid DNA content in rat Purkinje cells: a quantitative cytochemical study, *43
Predominantly cerebral forms of histiocytosis-X, T157
Presidential address: allergic encephalomyelitis: cellular transformation and vascular blockade, T146, *6
Prineas, J., see Raine, C. S., T148
Pudenz, R. H., see Cravioto, H., T158
Purkinje cells, postnatal development of tetraploid DNA content, *43
Pyrithiamine-induced thiamine deficiency, some regional pathologic and metabolic consequences in mouse brain, *57

Quaking mouse, hypomyelination in, *507
Quantitative cytochemical study: postnatal development of tetraploid DNA content in rat Purkinje cells, *43

Radioautographic studies of Schwann cell behavior: I. acrylamide neuropathy in the mouse, *500
Raine, C. S., and M. B. Bornstein, experimental allergic encephalomyelitis: An ultrastructural study of experimental demyelination in vitro, *177
—, and —, experimental allergic encephalomyelitis: a light and electron microscope study of remyelination and sclerosis in vitro, *552
Reese, T. S., see Brightman, M. W., T123
—, and Y. Olsson, fine structural localization of a blood-nerve barrier in the mouse, T123
Regeneration and innervation de novo, of adult skeletal muscle in vitro, T134
Regional distribution of cystathionine synthase activity and of cystathionine in brain of rhesus monkey at various stages of development, T156
Reimer, P. R., see Samorajski, T., *507
Relationship of Golgi thiaminepyrophosphatase and lysosomal acid phosphatase to neuromelanin and lipofuscin in cerebral neurons of the aging rhesus monkey, *225
Remyelination, in vitro, in experimental allergic encephalomyelitis, a light and electron microscope study, *552
Reovirus encephalitis: new observations of virus-cell interactions in neural tissues, T130
Response of lysosomes in cultured neurons to chlorpromazine, *337
Retina, monkey and rabbit, microglia in, *217
Retrograde atrophy of axons of the medial lemniscus of the cat. an experimental study, *354
Richardson, E. P., Jr., see Derby, B. M., T139
Richter, R. B., in memoriam, Arthur Weil, *1
Rorke, L. B., see Suzuki, Y., *405
Rosenblum, W. I., erythrocyte velocities and a velocity-pulse revealed by high speed microcinematography of minute pial vessels in the mouse, T124
—, inhibition of experimental cerebral vasospasm by agents with beta adrenergic blocking properties, T155
Rosenthal fibers, light and electron microscopic observations in Alexander's disease and in multiple sclerosis, *524
Rosomoff, H. L., see Zippin, A. G., T126
Roth, A., see Bowen, F. P., T126
Rubinstein, L. J., see Herndon, R. M., *524
—, see Kadin, M. E., *583

Saito, A., and S. I. Zacks, fine structure of neuromuscular junctions following spontaneous reinnervation and implantation of denervated muscle, T134
Samorajski, T., R. L. Friede, and P. R. Reimer, hypomyelination in the quaking mouse. a model for the analysis of disturbed myelin formation, *507
Sarcoma, virus induced cerebral, *370
Sato, Y., see Yonezawa, T., T153
Schaumburg, H. H., R. Byck, and R. O. Weller, the effect of phenol on peripheral nerve—a histological and electrophysiological study, *615
Scheiffarth, F., see Warnatz, H., *575
Schilder's disease, ultrastructural and biochemical studies. I. ultrastructure, *392
—, ultrastructure and biochemical studies. II. biochemistry, *405
Schlaepfer, W. W., histochemical and structural changes in peripheral nerve following local injections of vincristine sulfate, T140
Schneck, L., see Adachi, M., T138, *601
Schoene, W. C., A. K. Asbury, and K. E. Aström, hereditary sensory neuropathy: light, phase-contrast and electron microscopic observations, T122
Schotland, D. L., an electron microscopic investigation of myotonic dystrophy, *241
Schulz, R. A., and D. A. Hilding, nerve fiber growth and myelination in von Recklinghausen eighth nerve tumor tissue, *105
Schutta, H. S., L. Johnson, and H. E. Neville, mitochondrial abnormalities in bilirubin encephalopathy, T144, *296
Schwann cell, radioautographic studies of behavior in acrylamide neuropathy in the mouse, *500
Scott, D. E., an ultrastructural investigation of hypermyelinization in the neurohypophyseal system of the rat, T127
Senyszyn, J. J., see Mastri, A. R., T154
Serum albumin and the blood-brain barrier, vital staining, *266
Sever, J. L., see Horta-Barbosa, L., T132
Shaw, C. M., and C. B. Carlson, crystalline structures in globoid-epithelioid cells: an electron microscopic study of globoid leukodystrophy (Krabbe's disease), *306
Shein, H. M., neoplastic transformation of hamster astrocytes and choroid plexus cells in culture by polyoma virus, *70
Shelanski, M. L., J. Turnbull, and W. T. Norton, a method for the isolation of mammalian neurofilaments, T141
Sheremata, W., see Behan, P. O., T146
Shulman, K., see Weller, R. O., T126
Snider, R. S., see del Cerro, M. P., T142
Snyder, R. D., see Appenzeller, O., T154
Solitare, G. B. and H. Koehl, the cri du chat syndrome: clinical, cytogenetic, and neuropathologic observations, T159
Some regional pathologic and metabolic consequences in mouse brain of pyrithiamine-induced thiamine deficiency, *57

XUM

Sourander, P., see Haltia, M., T144
Sperber, E. E., see Koep, L. J., *254
Spina bifida, *192
Steinberg, S. A., see Gambetti, L. A., T137
Studies on the formation of autophagic vacuoles in neurons treated with spindle inhibitors (colchicine and vinblastine), T142
Study of globoid leukodystrophy, *306
Subacute necrotic myelopathy: isolation of a virus, light and electron microscopic studies, T131
Sung, J. H., and K. Okada, an ultrastructural alteration of lysosomes in the dorsal spinal ganglion cells of young aleutian mink, T143
Suppression of experimental allergic neuritis in rats by prior immunization with nerve in saline, T147
Supraoptic nuclei, human, cellular changes in dehydration, *254
Sutton, C. H., see Popovitch, E. R., T155
—, see Zippin, A. G., T126
Suzuki, K., and W. D. Grover, ultrastructural and biochemical studies of Schilder's disease. I. ultrastructure, *392
—, see Suzuki, Y., T137, *405
Suzuki, Y., S. H. Tucker, L. B. Rorke, and K. Suzuki, ultrastructure and biochemical studies of Schilder's disease. II. biochemistry, *405
Swenberg, J. A., A. Koestner, and R. Tewari, the pathogenesis of mycotic encephalitis: an ultrastructural study, T128

Terry, R. D., see Weller, R. O., T126
—, see Wisniewski, H., T148, *163
—, H. Wisniewski, and A. B. Johnson, studies on the formation of autophagic vacuoles in neurons treated with spindle inhibitors (colchicine and vinblastine), T142,
Tetraploid DNA content in rat Purkinje cells: postnatal development: a quantitative cytochemical study, *43
Tewari, R., see Swenberg, J. A., T128
Thiamine deficiency, pyrithiamine-induced, *57
Thiaminepyrophosphatase, Golgi, relationship to neuromelanin and lipofuscin in cerebral neurons of the aging rhesus monkey, *225
Thompson, H. G., Jr., see Chou, S. M., T141
Thorium in the brain—five cases at autopsy 10 to 32 years later, T160
Tiell, M. L., see Zippin, A. G., T126
Tissue culture, demonstration of myelinotoxicity in cerebrospinal fluid and brain extracts from multiple sclerosis patients, *420
Torii, J., see Adachi, M., T138, *601
Tourtellotte, W. W., see Kim, S. U., *420
Tucker, S. H., see Suzuki, Y., *405
Turnbull, J., see Shelanski, M. L., T141

Ultrastructural and biochemical studies of Schilder's disease. I. ultrastructure, *392
— observation in a case of multiple sclerosis, T149
— study of experimental demyelination in vitro: experimental allergic encephalomyelitis, *177
Ultrastructure and biochemical studies of Schilder's disease. II. biochemistry, *405
— of demyelination in a case of acute Guillain-Barré syndrome, T148
— of globoid leukodystrophy (Krabbe's Disease) with reference to the origin of globoid cells, *441

Vatter, A. E., see Macintyre, E. H., T132
Viral hemorrhagic encephalopathy of rats, T130
Virus induced cerebral sarcoma, *370
Vital staining, serum albumin and the blood-brain barrier, *266
Volk, B. W., see Adachi, M., T138, *601
Volpe, J. J., and L. Laster, regional distribution of cystathionine synthase activity and of cystathionine in brain of rhesus monkey at various stages of development, T156
Von Recklinghausen eighth nerve tumor tissue, nerve fiber growth and myelination, *105
Vrabec, Fr., microglia in the monkey and rabbit retina, *217
Vulnerability of the blood brain barrier (BBB) to proteins after cerebral ischemia, T125

Warnatz, H., F. Scheiffarth, and H. Kuntz, studies on lymphocyte transformation in experimental allergic encephalomyelitis, *575
Watanabe, I., and G. J. Bingle, dysmyelination in the brain of the quaking mouse: an electron microscopic study, T150
—, see Horta-Barbosa, L., T132
Weller, R. O., N. Ishii, H. Wisniewski, R. D. Terry, and K. Shulman, pathogenesis of tissue damage in hydrocephalus, T126
—, see Schaumburg, H. H., *615
Whittaker, J. N., see Wisniewski, H., T148
Wisniewski, H., see Raine, C. S., T148
—, see Terry, R. D., T142
—, R. D. Terry, and A. Hirano, neurofibrillary pathology, *163
—, R. D. Terry, J. N. Whittaker, S. D. Cook, and P. C. Dowling, Landry-Guillain-Barré syndrome: a primary demyelinating disease, T148
—, see Weller, R. O., T126
Wolf, A., see Cowen, D., *21

Yonezawa, T., Y. Ishihara, and Y. Sato, demyelination by measles sera, studied in vitro nervous tissue, T153

Zacks, S. I., see Saito, A., T134
Zeman, W., see Horta-Barbosa, L., T132
Zimmerman, H. M., see Hirano, A., T124, *432
—, see Popovitch, E. R., T155
Zippin, A. G., C. H. Sutton, M. L. Tiell, and H. L. Rosomoff, alterations in protein uptake produced by temperature gradients in murine ependymoblastoma, T126

XUM